CLAIMS

1 I A system comprising:
2 a processor with an adjustable supply voltage;
3 at least one temperature sensor, coupled to the processor to sense a temperature of the
4 processor;
5 the system to adjust the processor's supply voltage to an acceptably low supply voltage
6 based at least in part on the processor's sensed temperature and a sensed clock frequency
7 of the processor; and
8 a flash memory to store a plurality of the acceptably low supply voltages for the
9 processor based at least in part on the processor's sensed clock frequency and the
10 processor's sensed temperature

1 2. The system of claim 1 wherein the system is coupled to a power source integrated with a
2 power controller.

1 3. The system of claim 1 wherein the temperature sensor is integrated with the processor.

1 4. The system of claim 1 wherein the temperature sensor is attached to a ceramic package of
2 the processor.

1 5. The system of claim 1 wherein the temperature sensor is located within zero to seven centimeters
2 of the processor.

6. The system of claim 1 wherein the system comprises at least one of a personal digital assistant, a cell phone, an Internet tablet, or a personal computer.

7. An article comprising:

a storage medium having stored thereon instructions, that, when executed by a computing platform, result in execution of adjusting a supply voltage to a system's processor by:

sensing the system processor's temperature;

storing a plurality of acceptably low supply voltages based at least in part on the processor's sensed temperature and the processor's sensed clock frequency; and

generating a command to adjust the system's supply voltage to approximately the acceptably low supply voltage.

8. The article of claim 7, wherein said storing the plurality of acceptably low supply voltages comprises writing the acceptably low supply voltage to a flash memory.

9. The article of claim 7, wherein said generating a command comprises transmitting the command from the system processor to a power source.

10. The article of claim 7, wherein said generating a command comprises transmitting the command from a power controller to a power source.

11. The article of claim 7, wherein the system comprises at least one of a personal digital assistant, a cell phone, an Internet tablet, or a personal computer.

12. A method of adjusting a voltage level to a processor comprising:

sensing a temperature and a clock frequency of the processor;

comparing the processor's sensed temperature and the processor's clock frequency to a table of data of an acceptably low voltage level for a plurality of processor's sensed temperatures and processor's sensed clock frequencies; and

adjusting the voltage level of the processor to the acceptably low voltage level based at least in part on the processor's sensed temperature and the processor's sensed clock frequenc

13. The method of claim 12 further comprising storing the table of data in a flash memory.

14. The method of claim 12 wherein adjusting the voltage level comprises generating a set voltage command.

15. The method of claim 14 wherein generating the set voltage command comprises transmitting the set voltage command to a power source.